MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

Section I

CITY, STATE, AND ZIP CODE

MANUFACTURER'S NAME

BOSTIK WEST.

DIVISION OF EMHART CORPORATION

STREET ADDRESS

20846 S. NORMANDIE AVE.

TORRANCE, CA.

90502

OCCUPATIO

EMERGENCY TELEPHONE NO. (213) 320-6800

PRODUCT CLASS

DATE OF PREP.

1/82

(DPM-110) BLACK GLOSS, 595a-17038

TRADE NAME

MANUFACTURERS CODE IDENTIFICATION

443-3-17

Catalyst: X-304

Mix Ratio: 3 parts 443-3-17(Base) to

CA09

1 part X-304 by volume

Section II — HAZARDOUS INGREDIENTS

INGREDIENT 443-3-17(Base Only)	CAS NO.	PERCENT (Wt.)	T PPM	mg/M <sup>3</sup>	LEL	VAPOR PRESSURE
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Methyl Ethyl Ketone	78-93-3	20-25	200		1.8	70
Toluene	108-88-3	10-15	200		1.2	22
Methyl n-Butyl Ketone	591-78-6	10–15	25		1.2	10
Butyl Cellosolve	111-76-2	<b>&lt;</b> 5.0	50		1.1	1
Xylene	1330-20-7	<b>&lt;</b> 5.0	100	i	1.0	7
Isobutyl Alcohol	67-63-0	<b>&lt;</b> 1.0	400		2.5	33
n-Butyl Acetate	123-86-4	5-10	150		1.7	8

#### Section III — PHYSICAL DATA

**BOILING RANGE** 

176-340° F.

VAPOR DENSITY

X HEAVIER

LIGHTER, THAN AIR

FASTER

X. SLOWER, THAN ETHER

PERCENT VOLATILE

**WEIGHT PER** 48%

7.9 Lbs.

Section IV - FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORY Red Label, Flammable

23° F.

Tag Closed Cup

LEL 1.0

**EXTINGUISHING MEDIA** 

Exclude air-Use foam, CO2, steam, water fog,

dry chemicals. Do not use water.

. UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapor forms explosive mixture with air between

upper and lower explosion limits.

SPECIAL FIRE FIGHTING PROCEDURES

Do not use water, exclude air, use water spray to cool fire exposed surfaces and to protect personnel.

## Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE : See Section II

EFFECTS OF OVEREXPOSURE: Headache, nausea, dizziness. Breathing vapor will be

irritating to nose, throat and eyes.

EMERGENCY AND FIRST AID PROCEDURES Skin Exposure: Wash affected area with soap & water. Eye Exposure: Flush with water for at least 15 minutes, consult physician.

Ingestion: Consult physician immediately.

Remove victim to fresh air, consult physician. Inhalation:

Sect	ion	VI	F	REA	CTI	VIT	Y DATA

UNSTABLE XX STABLE conditions to Avoid: Storage at high temperatures. INCOMPATABILITY (Materials to avoid) Strong oxidizing agents, Inorganic acids, Sparks & open flame. HAZARDOUS DECOMPOSITION PRODUCTS: By fire, CO, CO, Oxides of Nitrogen. Avoid contact with water, alcohols, amines & other compounds which react with isocyanates.

HAZARDOUS POLYMERIZATION

MAY OCCUR XX WILL NOT OCCUR

#### CONDITIONS TO AVOID

### Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate sources of ignition and clear fumes from area. Prevent liquid from entering sewers, water sources, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without hazard. Contain spilled liquid with sawdust or oil absorbing compound. Wash waste disposal method area with detergent & water. Consult disposal expert & ensure conformity with local regulations

# Section VIII — SPECIAL PROTECTION INFORMATION

Use approved respiratory protection such as an air-supplied RESPIRATORY PROTECTION:

mask if used in non-ventilated area.

Mechanical: Explosion-proof ventilation equipment. No smoking or open lights.

VENTILATION Face velosity > 60 fpm in confined area.

Chemically resistent gloves.

Chemical splash goggles or face shield. EYE PROTECTION :

Eye bath & safety shower. OTHER PROTECTIVE EQUIPMENT :

#### Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING . Material is sensitive to moisture and should be kept in tightly closed containers.

#### OTHER PRECAUTIONS

All handling equipment should be electrically grounded. Treat as a very flammable liquid.

Technical 'Administrative Manager

MATERIAL SAFETY DATA SHEET

#### FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP.

10-81

Section I

MANUFACTURER'S NAME

BOSTIK WEST. DIVISION OF EMHART CORPORATION

STREET ADDRESS

20846 S. NORMANDIE AVE. CITY, STATE, AND ZIP CODE

TORRANCE, CA.

OCCUPATION

EMERGENCY TELEPHONE NO. (213) 320-6800

PRODUCT CLASS AMINE

MANUFACTURERS CODE IDENTIFICATION

X - 304

Catalyst for 443-3-Series; 3 parts base to 1 part X-304. 453-1000 Series; 4 parts base to 1 part X-304.

463-3-Series; 4 parts base to 1 part X-304.

TRADE NAME

BOSTIK

HAZADDONO INIODEDIENTO

580	tion II — HAZ	AKDO02	INGREDIE	M12		
INGREDIENT X-304 EPOXY CATALYST*	CAS NO. PERCENT (Wt.) PPM		V mg/M³	LEL	VAPOR PRESSURE	
Methyl Ethyl Ketone	78-93-3	25-30	200		1.8	70
Butyl Alcohol	71-36-3	20-25	100		1.7	4
Butyl Acetate	123-86-4	20-25	150		1.7	8
Butyl Cellosolve	111-76-2	10-15	50		1.1	1
*X-304 may also contain a minor amount of diethylene triamine(DETA) ACGIH, TWA	108-88-3 111-40-0	5-10	200		1.2	22

## Section III - PHYSICAL DATA

**BOILING RANGE** 

176-340° F.

VAPOR DENSITY

X HEAVIER

LIGHTER, THAN AIR

EVAPORATION RATE

FASTER X SLOWER, THAN ETHER

75%

**WEIGHT PER** 

7.1 lbs.

## Section IV — FIRE AND EXPLOSION HAZARD DATA

DOT CATEGORYed Label, Flammable

23° F.

Tag Closed

1 ...1 LEL

**EXTINGUISHING MEDIA** 

Exclude air-Use foam, CO2, steam, water fog,

dry chemicals. Do not use water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vapor forms explosive mixture with air between

upper and lower explosion limits.

SPECIAL FIRE FIGHTING PROCEDURES

Do not use water, exclude air, use water spray to cool fire exposed surfaces and to protect personnel:

# Section V — HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

See Section II

**EFFECTS OF OVEREXPOSURE** 

Headache, nausea, dizziness. Breathing vapor will be irritating to nose, throat, and eyes.

EMERGENCY AND FIRST AID PROCEDURES : Skin Exposure: Wash affected area with soap and Eye Exposure: Flush with water for at least 15 minutes, consult

Ingestion: Consult physician immediately.

Inhalation: Remove victim to fresh air, consult physician.

Section	on VI —	REACT	IVITY	DATA
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STABILITY UNSTABLE XX STABLE CONDITIONS TO AVOID Storage at high temperatures. INCOMPATABILITY (Materials to avoid) Strong oxidizing agents. Sparks & open flame.
On combustion CO, CO <sub>2</sub> , Aldehydes and other organics, oxides of nitrogen.
HAZARDOUS POLYMERIZATION - MAY OCCUR XX WILL NOT OCCUR CONDITIONS TO AVOID

## Section VII — SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate sources of ignition and clear fumes from area. Prevent liquied from entering sewers, water sources, or low areas. Keep unnecessary personnel away. Shut off source, if possible to do so without waste disposal method hazard. Contain spilled liquid with sawdust, sand or oil absorbing compound. Wash area with detergent & water. Consult disposal expert and ensure conformity with local regulations.

## Section VIII — SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION : Use approved respiratory protection such as an air-supplied mask if used in non ventilated area. Mechanical: Explosion-proof ventilation equipment. No smoking or open lights.

VENTILATION: Face velosity > 60fpm in confined area.

PROTECTIVE GLOVES Chemically resistant gloves. EYE PROTECTION Chemical splash goggles or face shield. OTHER PROTECTIVE EQUIPMENT Eye bath & Safety shower.

## Section IX — SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep containers closed when not in use. Do Not handle or store near flame, heat or strong oxidants. Adequate ventilation required. Containers of this product may be hazardous when emptied -these other precautions containers retain product residues (vapor, liquid, etc.).

All handling equipment should be electrically grounded. Treat as a very flammable liquid.

Technical Administrative Manage